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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,850	11/30/2001	Daniel J. Aldrich	1708	9608
21396	7590	11/02/2005	EXAMINER	
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			ART UNIT	PAPER NUMBER
			2194	

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/017,850

Applicant(s)

ALDRICH ET AL.

Examiner

LeChi Truong

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06/20/2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 19-24 is/are allowed.
- 6) ☒ Claim(s) 1-16 and 18 is/are rejected.
- 7) ☒ Claim(s) 17 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. Claims 1-24 are presented for the examination.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Edwards et al (US. 6,353,819 B1).

As to claim 1, Edwards teaches the invention substantially as claimed including: a first architecture layer (the RAM Codegen Executor Component layer 204, col 5, ln 19/ Fig. 2), transparent layer (the record file manager component layer 206, col 5, ln 5-7/ Fig. 2), a second layer (the IO Random controller component layer 208, col 5, ln 20-25/ Fig. 2), the layer enabling the first layer and the second layer to communicate directly without having to communicate via the layer (col 2, ln 55-60/col 3, ln 13-17/col 5, ln 64-67/ col 9, ln 13-18)/ the record file manager component layer 206 is located between the layer 204 and 208(Fig.2), the layer 206 is transparent layer since the communication between layer 204 and 208 can be performed by bypassing or eliminating the layer 206 resulting in increases performance (col 3, ln 15-17/ col 5, ln 64-68/ col 6, ln 43-47/ col 7, ln 1-5 and ln 20-25 . Edward does not explicit teach architecture.

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However, Edwards teaches architecture (component, col 2, ln 52-55). It would have been obvious to one of the ordinary skill in the art at the time the invention was made to apply the teaching of Edwards because Edwards's component would improve the efficiency of Edward's system by providing more efficiency method and system for improving relational data access performance in retrieving row data.

As to claim 2, Edwards teaches a first layer object (the RAM Codegen Executor Component layer 204, col 5, ln 19/ Fig. 2), a transparent layer object (the record file manager component layer 206, col 5, ln 5-19/ Fig. 2), a second layer (the IO Random controller component layer 208, col 5, ln 20-25/ Fig. 2), the layer object configured to be hidden for communication between the first layer object and the second layer object/ the communication between each other by bypassing the layer (col 2, ln 55-60/col 3, ln 13-17/col 5, ln 9-19 and ln 54-67).

As to claim 3, Edwards teaches a group comprising a control message, data (col 5, ln 44-48).

As to claim 4, Edwards teaches the first layer object is configured to transmit the communication to the second layer object (col 5, ln 5-9).

As to claim 5, Edwards teaches the second layer object is configured to transmit the communication to the first layer object (col 8, ln 27-32).

As to claim 6, Edwards teaches collapse the transparent layer object when the first layer object and the second layer object relay the communication (col 2, ln 55-60/col 3, ln 13-17/col 5, ln 9-19 and ln 54-67).

As to claim 7, Edwards teaches a plurality of transparent layer objects (a multi-layered relational database manager, col 2, ln 49-50).

As to claim 8, Edward teaches the communication comprises data (col 5, ln 48-50).

As to claim 9, Edward teaches configured to receive data, to transmit the data to the first layer object, to receive other data from the first layer, and to render the other data (col 4, ln 65-67 to col 5, ln 1-4), user interface attachable to the first layer (col 1, ln 34 –38).

16. Claims **10 and 11** are rejected under 35 U.S.C. 103(a) as being unpatentable over Edwards et al (US. 6,353,819 B1) as applied to claim 1 above in view of Beer (US. Patent 5,793,368).

As to claim 10, Edwards does not teach a selected user interface type dynamically selectable and dynamically interchangeable from a plurality of user interface types. However, Beer teaches a selected user interface type dynamically selectable and dynamically interchangeable from a plurality of user interface types (dynamically switch between visual styles, col 2, ln 10-15).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Edwards and Beer because Beer's dynamically switch between visual styles would improve the efficiency of Edwards's system by reducing security risks when loading applications from servers.

As to claim 11, Edwards teaches a graphical user interface, a web enable interface, a handles device interface, a voice simulate interface, a voice response interface, a voice activated interface, a voice recognition interface, and an audio interface (col 1, ln 18 -25).

20. **Claims 12 and 13** are rejected under 35 U.S.C. 103(a) as being unpatentable over Edwards et al (US. 6,353,819 B1) as applied to claim 1 above, in view of Rick (CA Ship Database-Management Suite For E-Commerce).

As to claim 12, Edwards does not teach a plurality of databases, each database having a different database type. However, Rick teaches a plurality of databases, each database having a different database type (the oracle database... Sybase databases, page 1, ln 22-23).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Edwards and Rick because Rick's a plurality of databases and each database having a different database type would improve the efficiency of Edwards's system by providing greater availability single instance accessing a single database.

As to claim 13, Rick teaches a structured query language database, an Oracle database, a DB2 database, and an XML-based database (page 1, ln 22 -23).

2. **Claims 14, 16 and 18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Edwards et al (US. 6,353,819 B1) in view of Kung (US. Patent 5,933,837).

As to claim 14, Edwards teaches an province configured (MFM component layer 206, col 8, ln 30-32), an action province configured with logic to process an action and to generate at

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least one query requesting data (col 5, ln 14-17/col 8, ln 53-56), query requesting data (col 5, ln 45-48), a yoke province (RAM Codegen Executor layer 204, col 5, ln 33), identify a database with a database type to which the query corresponds (col 5, ln 42-44), initiate a connection with the database to transmit the query to the database(col 5, ln 45-48), retrieve data in response to the query(col 5, ln 47-50), transmit the data to the action province(col 8, ln 29-32), a witness province(the Io Random Controller component layer 208, col 5, ln 20-21), the witness province configured to identify the action occurring via an input/output interface (col 5, ln 20-23), notify with the action at least one member of a group(col 8, ln 51-53), at least one layer configured to enable communication with a surrounding layer without having to communicate via the layer(col 2, ln 55-60/col 3, ln 13-17/col 5, ln 9-19 and ln 65-67).

Edwards do not explicit teach dynamically identify a database with a database type to which the query corresponds. However, Kung teaches dynamically identify a database with a database type to which the query corresponds (determines which of subscribe databases requires translations and subsequently translates the queries into appropriate formats based on the types of subscribing database models, col 3, ln 55-60/ predetermined or sample query descriptions that can be used by query manager to construct queries appropriate for each of subscribing databases 122, 124, 126(fig.1), col 4, ln 64-67/ col 5, ln 1-5).

I would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Edwards and Kung because Kung's dynamically identify a database with a database type to which the query corresponds would improve the efficiency of Edward's system by providing a system that correctly propagates the update in the primary data only to subscribing databases that need to access.

As to claim 16, Edwards teaches apply logic to action and to direct transfers of the action the query (col 8, ln 44-46), store the data (col 8, ln 53-56), initiate storage and retrieval of the data to and from the database by identifying the database and generating the query for the database (col 8, ln 27-32), format the query generated from the persistent layer to the database format required by the database (col 5, ln 10-16).

As to claim 18, Edwards teaches the witness yoke province comprises a nomadic layer object configured to make a connection to the database and to pass the query to the database (col 5, ln 20-25/col 8, ln 44-46).

2. Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Edwards et al (US. 6,353,819 B1) in view of Kung (US. Patent 5,933,837), as applied to claim 14 above, and further in view of Beer (US. Patent 5,793,368).

As to claim 15, Edwards and Kung do not teach dynamically support a plurality of user interfaces, each having a different interface type. However, Beer teaches dynamically support a plurality of user interfaces, each having a different interface type (dynamically switch between visual styles, col 2, ln 10-15).

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to combine the teaching of Edwards and Beer because Beer's dynamically switch between visual styles would improve the efficiency of Edwards's system by reducing security risks when loading applications from servers by avoiding use of machine code in defining a user interface.

Allowable Subject Matter

24. Claim 17 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
25. Claims 19-24 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LeChi Truong whose telephone number is (571) 272 3767. The examiner can normally be reached on 8 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomson, William can be reached on (571) 272 3718. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIP. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIP system, contact the Electronic Business Center (EBC) at 866-217-9197(toll-free).


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LeChi Truong

October 31, 2005


W Turner
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